

16 MB RAM V6.0a Bill of Material (part numbers current as of Sept 20 2020)

Have?	Need?	Schematic reference number	Description	Quantity	Source	Part Number	Notes	
		C1	47 uF, 16 Volt, 10%, Radial Tantalum	1	Jameco	94123		
		C2, C3, C4, C5, C6, C31, C32	10 uF, 25 Volt, 10%, Radial Tantalum	7	Jameco	545641		
		C7, C13, C14, C15, C16, C17, C18, C19, C21, C22, C23, C24, C27, C28, C29, C30, C38, C40, C42, C101	0.1 uF, 50 Volt, Monolithic Z5U, Radial	20	Jameco	544921		
		D1	LED, Blue Diffused, T-1 3/4, 10mcd, 430nm	1	Jameco	138691		
		D2, D3	LED, Green Diffused T-1 3/4, 30mcd 565nm	2	Jameco	34761		
		D4, D5	LED, Red Diffused T1 3/4, 19mcd 623nm	2	Jameco	697522		
		D101, D102, D103, D104, D105, D106	LED, Yellow, T1, Water Clear, 700mcd, 589 nm LED, Yellow Diffused T-1 3/4, 29mcd 588nm	4 2	Jameco Jameco	2133632 697549		
		JP1, JP2, P4, JP101, P106	Jumper, 2 Position, Unshrouded Header 2.54mm Solder Straight	2	Jameco	160882	cut to length	
		K1, K2, K102, K103	Jumper, 3 Position, Unshrouded Header 2.54mm Solder Straight	4	Jameco	160882	cut to length	
		P2, P3, P107	Jumper, 4x2 Position, Unshrouded Header 2.54mm Solder Straight	3	Jameco	109517		
		P101, P102, P105	Jumper, 8 Position, Unshrouded Header 2.54mm Solder Straight	3	Jameco	153702		
		RR1, RR101	1K Ohm SIP 10pin, 9 Resistors	2	Jameco	97877		
		RR2	4.7K Ohm SIP 10pin, 9 Resistors	1	Jameco	24660		
		RR3, RR102	470 Ohm SIP 10pin, 9 Resistors	2	Jameco	690785		
		SW101	DIP Switch, 8-Pos, On-Off, SPST, Raised Rocker	1	Jameco	696917		
		U1	L7805ACV 5 Volt 1 Amp, 3 Pin TO-220	1	Digikey	497-1441-5-ND		
		U2, U23, U24	74LS244	3	Digikey	296-1653-5-ND		
		U3	LM3940 Regulator 3.3 Volt 1A TO-220	1	Digikey	LM3940IT-3.3/NOPB-ND		
		U5, U6, U8, U11	AS6C3216A SRAM 32M PARALLEL 48TSOP	4	Digikey	1450-1414-ND		
		U7, U16	74LS123	2	Digikey	296-1636-5-ND		
		U19, U22, U31, U105	74LS645	4	Digikey	296-26519-5-ND		
		U28	74F240	1	Jameco	245227		
		U101	74LS07N	1	Digikey	296-14878-5-ND		
		U102, U103	GAL22V10-15	2	Jameco	39159		
		U104	74LS01	1	Jameco	2298615		
		U106	74LS165	1	Digikey	296-14885-5-ND		
		Hardware - IC sockets						
		DIP14	14-pin machine tooled low profile 0.3 inch wide	2	Jameco	37197		
		DIP16	16-pin machine tooled low profile 0.3 inch wide	3	Jameco	37402		
		DIP20	20-pin machine tooled low profile 0.3 inch wide	8	Jameco	38623		
		DIP24 .3" spacing	24 pin machine tooled low profile 0.3 inch wide	2	Jameco	39386		
		Hardware required for heat sinks						
		Heat Sink TO-220 (for L7805)			Jameco	129242		
		Heat Sink TO-220 (for LM3940)			Jameco	326596		
		Screw, 6-32, 3/8" Phillips						
		NUT, HEX, 6-32						
		Optional - only required for use with mezzanine boards						
		K108, K109, K110, K111	Jumper, 3 Position, Unshrouded Header 2.54mm Solder Straight	4	Jameco	160882	cut to length	
		P103, P104	Header 40 (20X2) Position, 2.54mm Solder, Straight, Through Hole	2	Jameco	111705		